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L1	7	US-5542066-$.DID. OR US-5586291-$.DID. OR US-5636355-$.DID. OR US-5778418-$.DID. OR US-5798968-$.DID. OR US-5890192-$.DID. OR US-6016530-$.DID.	USPAT	OR	ON	2006/02/15 18:38
L2	0	"2002083280".pn.	US-PGPUB	OR	ON	2006/02/15 18:39
L3	1	"20020083280".pn.	US-PGPUB	OR	ON	2006/02/15 18:40
L4	1	1 or 3	US-PGPUB	OR	ON	2006/02/15 18:40
L5	1	L1 or L4	US-PGPUB	OR	ON	2006/02/15 18:40
L6	7	US-5542066-$.DID. OR US-5586291-$.DID. OR US-5636355-$.DID. OR US-5778418-$.DID. OR US-5798968-$.DID. OR US-5890192-$.DID. OR US-6016530-$.DID.	USPAT	OR	ON	2006/02/15 18:40
L7	8	5 or 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:40
L8	5006	overlap$5 near5 address$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:41
L9	76694	("same" near5 address$5) or (subset near5 address$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:43
L10	79222	8 or 9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:43
L11	5	7 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:44
L12	984	9 with (logical adj address$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:44
L13	1011	10 with (logical adj address$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:45
L14	175	13 same map$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:45

L15	63569	(disk or disc or drive) same (flash or mram)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:46
L16	570	15 same synchroniz$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:46
L17	0	14 and 16	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:47
L18	6028570	available or accessibil$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:47
L19	65023	unavailable or inaccessibil$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:48
L20	17982	18 same 19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:48
L21	5	16 and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:48
L22	25137074	@ad<"20040204"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:49
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L24	76988	18 with (disk or drive or disc)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:50
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L26	77484	24 or 25		US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:51
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L33	1242	711/100.ccls.		US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L34	1563	711/103.ccls.		US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L35	784	711/111.ccls.		US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L36	1795	711/118.ccls.		US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59

L37	2089	711/154.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L38	652	711/158.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L39	7815	32 or 33 or 34 or 35 36 or 37 or 38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:00
L40	35	14 and 39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:00
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L42	3	15 and 41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:01
L43	22	27 and 39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:01
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L45	4	22 and 44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:02
L46	287	711/156.ccls.	US-PGPUB	OR	ON	2006/02/15 19:02
L47	249	22 and 46	US-PGPUB	OR	ON	2006/02/15 19:03
L48	0	14 and 47	US-PGPUB	OR	ON	2006/02/15 19:03
L49	0	16 and 47	US-PGPUB	OR	ON	2006/02/15 19:03
L50	0	27 and 47	US-PGPUB	OR	ON	2006/02/15 19:03

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disk or **disc** or **drive** and **flash** or **mram** and **overlapping** and **mapping** and **logical** **addressess**

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1 Personal distributed computing: the Alto and Ethernet software

Butler Lampson
January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

Publisher: ACM Press
Full text available: 🅰 pdf(3.00 MB)   Additional Information: full citation, abstract, references, citings, index terms

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

2 On-line extraction of SCSI disk drive parameters   ·

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt, John Wilkes
May 1995   **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95**, Volume 23 Issue 1

Publisher: ACM Press
Full text available: 🅰 pdf(1.21 MB)   Additional Information: full citation, abstract, references, citings, index terms

Sophisticated disk scheduling algorithms require accurate, detailed disk drive specifications, including data about mechanical delays, on-board caching and prefetching algorithms, command and protocol overheads, and logical-to-physical block mappings. Comprehensive disk models used in storage subsystem design require similar levels of detail. We describe a suite of general-purpose algorithms and techniques for acquiring the necessary information from a SCSI disk drive. Using only the ANSI-standa ...

3 HyperCafe: narrative and aesthetic properties of hypervideo

Nitin Sawhney, David Balcom, Ian Smith
March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Publisher: ACM Press
Full text available: 🅰 pdf(1.22 MB)   Additional Information: full citation, references, citings, index terms

Keywords: aesthetics, digital video, multi-threaded narratives, navigation, temporal links

4 Efficient management for large-scale flash-memory storage systems with resource conservation

Li-Pin Chang, Tei-Wei Kuo
November 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 4

Publisher: ACM Press
Full text available: 🅰 pdf(1.45 MB)   Additional Information: full citation, abstract, references, index terms

Many existing approaches on flash-memory management are based on RAM-resident tables in which one single granularity size is used for both address translation and space management. As high-capacity flash memory is becoming more affordable than ever, the dilemma of how to manage the RAM space or how to improve the access performance is emerging for many vendors. In this article, we propose a tree-based management scheme which adopts multiple granularities in flash-memory management. Our objective ...

5 File organizations and access methods for CLV disks

S. Christodoulakis, D. A. Ford

May 1989   **ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '89**, Volume 23 Issue SI

Publisher: ACM Press

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

A large and important class of optical disc technology are CLV format discs such as CD ROM and WORM. In this paper, we examine the issues related to the implementation and performance of several different file organizations on CLV format optical discs such as CD ROM and WORM. The organizations examined are based on hashing and trees. The CLV recording scheme is shown to be a good environment for efficiently implementing hashing. Single seek access and storage utilization levels a ...

6 RAID: high-performance, reliable secondary storage

Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson

June 1994   **ACM Computing Surveys (CSUR)**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(3.60 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve aggregate I/O performance. Today they appear in the product lines of most major computer manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework in which to organize current and future work. First, the article introduces disk technology and reviews the driving forces that have popularized disk arrays: performance and reliability. It discusses the tw ...

7 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004   **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(18.15 MB)   Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

8 Management of disk space with REBATE

Shahram Ghandeharizadeh, Douglas J. Ierardi

November 1994   **Proceedings of the third international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(981.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

The past decade has witnessed a proliferation of respositories whose workload consists of queries that retrieve information. These repositories provide on-line access to vast amount of data and serve as an integral component of many application domains (e.g., library information systems, scientific applications, entertainment industry). Their storage subsystem is expected to be hierarchical consisting of memory, disk drives, and one or more tertiary storage devices. The database resides per ...

9 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004   **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.65 MB)   Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

10 Illumination 1: Chasing the green flash: a global illumination solution for inhomogeneous media
D. Gutierrez, F. J. Seron, O. Anson, A. Muñoz
April 2004 **Proceedings of the 20th spring conference on Computer graphics**
Publisher: ACM Press
Full text available: pdf(666.94 KB)   Additional Information: full citation, abstract, references

Several natural phenomena, such as mirages or the green flash, are owed to inhomogeneous media in which the index of refraction is not constant. This makes the light rays travel a curved path while going through those media. One way to simulate global illumination in inhomogeneous media is to use a curved ray tracing algorithm, but this approach presents some problems that still need to be solved. This paper introduces a full solution to the global illumination problem, based on what we have ...

Keywords: global illumination, inhomogeneous media, natural phenomena, photon mapping, realism, rendering

11 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

12 Projectors: advanced graphics and vision techniques
Ramesh Raskar
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(6.53 MB)   Additional Information: full citation

13 Modeling and performance of MEMS-based storage devices
John Linwood Griffin, Steven W. Schlosser, Gregory R. Ganger, David F. Nagle
June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(892.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

MEMS-based storage devices are seen by many as promising alternatives to disk drives. Fabricated using conventional CMOS processes, MEMS-based storage consists of thousands of small, mechanical probe tips that access gigabytes of high-density, nonvolatile magnetic storage. This paper takes a first step towards understanding the performance characteristics of these devices by mapping them onto a disk-like metaphor. Using simulation models based on the mechanics equations governing the device ...

14 Network behavior: The effectiveness of request redirection on CDN robustness
Limin Wang, Vivek Pai, Larry Peterson
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press
Full text available: pdf(1.86 MB)   Additional Information: full citation, abstract, references, citings

It is becoming increasingly common to construct network services using redundant resources geographically distributed across the Internet. Content Distribution Networks are a prime example. Such systems distribute client requests to an appropriate server based on a variety of factors---e.g., server load, network proximity, cache locality--in an effort to reduce response time and increase the system capacity under load. This paper explores the design space of strategies employed to redirect reque ...

15 Extended ephemeral logging: log storage management for applications with long lived transactions
John S. Keen, William J. Dally
March 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 1
Publisher: ACM Press
Full text available: pdf(566.34 KB)   Additional Information: full citation, references, index terms, review

Keywords: OLTP, disk management, logging, long transactions

16 Bridging the digital divide: storage media + postal network = generic high-bandwidth communication

Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang, Arvind Krishnamurthy

May 2005   **ACM Transactions on Storage (TOS),** Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(748.97 KB)   Additional Information: full citation, abstract, references, index terms

Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we propose to explore an approach that is potentially more easily realizable: the use of digital storage media transported by the postal system as a general digital communication mechanism. We shall call such a system a *Postmanet*. Compared to mor ...

Keywords: Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide

17 The impact of architectural trends on operating system performance

M. Rosenblum, E. Bugnion, S. A. Herrod, E. Witchel, A. Gupta

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95,** Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(2.03 MB)   Additional Information: full citation, references, citings, index terms

18 Broadcast protocols to support efficient retrieval from databases by mobile users

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999   **ACM Transactions on Database Systems (TODS),** Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(638.48 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important probllem. Such protocols are employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

19 The Rio file cache: surviving operating system crashes

Peter M. Chen, Wee Teck Ng, Subhachandra Chandra, Christopher Aycock, Gurushankar Rajamani, David Lowell

September 1996 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII,** Volume 31 , 30 Issue 9 , 5

Publisher: ACM Press

Full text available: pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

One of the fundamental limits to high-performance, high-reliability file systems is memory's vulnerability to system crashes. Because memory is viewed as unsafe, systems periodically write data back to disk. The extra disk traffic lowers performance, and the delay period before data is safe lowers reliability. The goal of the Rio (RAM I/O) file cache is to make ordinary main memory safe for persistent storage by enabling memory to survive operating system crashes. Reliable memory enables a syste ...

20 Burroughs Corporation: corporate public relations

October 1974 **ACM SIGMICRO Newsletter,** Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(7.37 MB)   Additional Information: full citation

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